

Day 5 – Slopes Applications**Practice Assignment****Name:** _____**Date:** _____ **Block:** _____

1. How many calories do you burn per minute on the exercise bike?

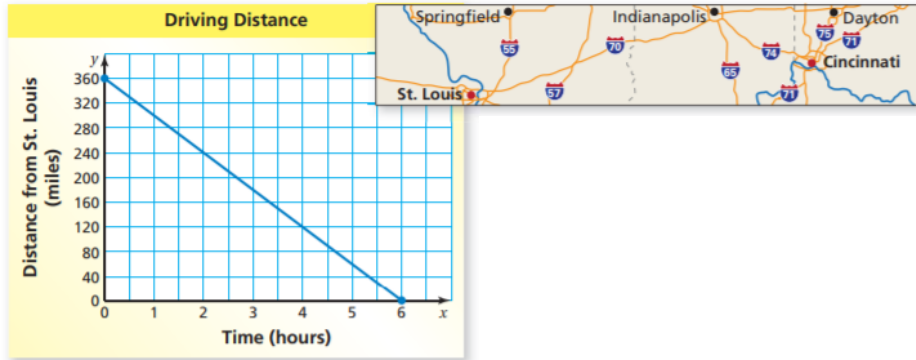
| Number of Minutes on an Exercise Bike | Total Number of Calories Burned |
|---------------------------------------|---------------------------------|
| 15 | 180 |
| 30 | 360 |
| 45 | 540 |
| 60 | 720 |

2. Carmen is selling pies at the cherry festival to raise money for her local volunteer fire department. She sells 85 pies for \$12 each. The supplies to make the pies cost Carmen \$340. What is the unit rate of profit she made per pie?

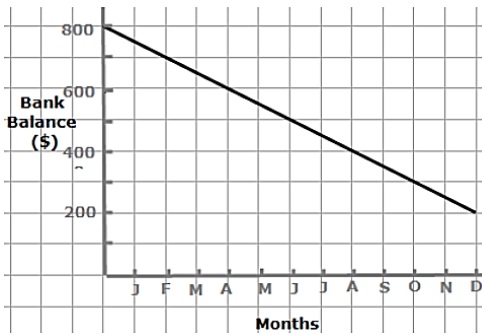
3. Rosa is ordering a submarine sandwich from the corner deli. The deli charges \$6.25 for a 7-inch sub. Some additional toppings cost extra. Rosa's sandwich with two extra toppings costs \$7.75. What is the cost per additional topping?

4. Jamal is shopping with a gift card he received for his birthday. After he purchases two T-shirts the gift card balance has dropped from \$50 to \$20.02. What is the unit rate of the cost per T-shirt?

5. You and your family are traveling from St. Louis to Cincinnati. What is the slope and what does it represent in this situation?



6. The following graph represents Michelle's bank account balance each month. What is the slope and what does it represent in this situation?



7. Calculate the slope from the table. Explain what the slope means in real world terms.

| Distance (miles) | Charge (dollars) |
|------------------|------------------|
| 5 | 12.75 |
| 8 | 18.00 |
| 12 | 25.00 |
| 14 | 28.50 |